

I claim:

1. In the method of manually installing arch shape cross section thermoplastic leaching chambers having widths of about 3 feet, for forming an interconnected string of chambers within a trench in soil, wherein each chamber has a first end and an opposing second end, wherein the first and second ends of adjacent chambers are configured to mate with a load transferring joints, the improvement which comprises: making the length of each chamber in the range of about 4 to 5 feet, to thereby facilitate joining chambers together and to increase the curve factor of a chamber string, compared to a string of about 6 foot long chambers.
2. The method of claim 1, wherein the length of said chamber is about 4 feet
3. The method of claim 1 wherein the joint between two mating chambers provides an essentially linear connection.
4. The method of claim 3 wherein said string of chambers has a horizontal plane curve factor of greater than 0.57 degrees per foot of length.
5. The method of claim 1, wherein each chamber has a length to width aspect ratio between 1.2 and 1.6, and a weight per foot of about 2.7 to 3 pounds.
6. The method of claim 1 wherein the chamber has a flexibility factor of greater than about 1 inch.
7. In the method of manually installing arch shape cross section leaching chambers, for forming an interconnected string of chambers within a trench in soil, wherein each chamber has a first end and an opposing second end, wherein the first and second ends of adjacent chambers are configured to mate with a load transferring joint; the improvement which comprises: increasing the number of joints for a given length of chamber string, so that to make the string of interconnected chambers adaptable to angular variations in the horizontal and vertical planes
8. The method of claim 7, wherein the nominal length of said chamber is about 4 feet.

9. The method of claim 7 wherein the joint between two mating chambers provides an essentially linear connection.

10. The method of claim 7 wherein said string has a horizontal plane curve factor of at least than 0.57 degrees per foot of length.

11. The method of claim 7 wherein the chamber has a flexibility factor of greater than about 1 inch.

12. In the method of manually installing arch shape cross section leaching chambers, for forming an interconnected string of chambers within a trench in soil, wherein each chamber has a first end and an opposing second end, wherein the first and second ends of adjacent chambers are configured to mate with a load transferring joint; the improvement which comprises: making the length of each chamber less than 100% of the mean height of a U.S. male, to thereby facilitate handling and installation.

13. The method of claim 12 wherein chamber length is between about 4 and 5 feet.

14. In the method of manually installing arch shape cross section thermoplastic leaching chambers for forming an interconnected string of chambers within a trench in soil, wherein each chamber comprises a continuous curve arch shape cross section corrugated interior and exterior surfaces which are substantially free of ribs, and opposing first and second ends shaped for interconnecting with like chambers; the improvement which comprises: making the length of each chamber in the range of about 4 to 5 feet, to thereby enable a mean height US male to grasp both ends of the chamber, and thereby manually lift one said chamber evenly from a nested pile of identical chambers.

15. An arch shape cross section molded thermoplastic leaching chamber having a length in the range about 4 to about 5 feet, a length to width aspect ratio between 1.2 and 1.6, a weight per foot of about 2.7 to 3 pounds, and a flexibility factor of greater than about 1 inch.

16. The chamber of claim 17 having a width of about 3 feet.

17. A continuous curve arch shape cross section molded thermoplastic leaching chamber which comprises corrugated interior and exterior surfaces which are substantially free of ribs, opposing first and second ends shaped for interconnecting with like chambers wherein the chamber has a length in the range 4 to 5 feet, and

a flexibility factor of at least 0.2 inch.

18/19. The chamber of claim 18 having a base width of about 3 feet.

RULE
1.26